

Training Title

PRODUCTION TESTING - RIGLESS OPERATIONS

Training Duration

5 days

Training Date

REF	<u>PRODUCTION TESTING -</u>	5	18-22 September	\$6,500	London, UK
HS018	<u>RIGLESS OPERATIONS</u>		2023		

In any of the 5 star hotels. The exact venue will be informed once finalized.

Training Fees

- 6,500 US\$ per participant for Public Training includes Materials/Handouts, tea/coffee breaks, refreshments & Buffet Lunch

Training Certificate

Define Management Consultancy & Training Certificate of course completion will be issued to all attendees.

Language: English

COURSE INTRODUCTION AND DESCRIPTION

This course is designed to provide with a thorough knowledge and understanding of the surface equipment, downhole tools, applications and operational contingencies for most Rigless Interventions techniques used in Oil & Gas wells worldwide. You will be provided with first-hand knowledge of what can be achieved without a rig on site.

Explore and learn the real advantage that a Rigless operations and Intervention can offer in terms of cost effectiveness, minimal deferment, real time data and the ability to perform these operations on a “live” well. This course will use real examples and exercises from around the world.

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COURSE OBJECTIVES:

By the end of the course participant will be able to inspectors of:

- Evaluate the whole drilling operations, well profiles & all used related services used in the well in relation with the needs for any rig less well interventions after complete the well directly or during the different well life stages.
- Treat the DRLG Fluids at the right time while drilling the pay zone to prevent the complications due to pay zone damage.

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- Evaluate the mud problems while drilling the pay zone section & how the skin factor can be controlled.
- Evaluate the cement behind casing quality specially in the pay zone & the needed remedial actions in any failure's cases.
- Know a detailed idea about the completion fluid properties, problems, types, filtration, treatment ways
- Be aware about all types of well completions linked with future rig less well intervention operations.
- Prepare the rig less intervention (different types of jobs) for the whole work over well with different well profiles.
- Be aware with all fishing accessories planned to be used any well intervention.
- Be aware with all slick line's equipment, accessories, operations
- Be aware with all Coiled Tubing equipment, accessories, operations, all related jobs
- Be aware with all rig less work over jobs types linked with all related equipment used in each job type.
- Be aware with all related rig less wells & reservoir monitoring measurements such as RST
- ✳ How to accurate reading & recording well head pressure and accurately measure well performance & Best production phase Procedures and Practices.
- ✳ Learn about the different tools of measurement production parameters.
- ✳ understand the production methods and measured production parameters
- ✳ Well head and X- Mass Tree monitoring, testing & maintenance
- ✳ Set up well engineering system
- ✳ Learn the different types of production testing
- ✳ High pressure and low pressure flaring system
- ✳ Monitoring and optimization injection wells (water and gas)
- ✳ Understand the well head safety panels
- ✳ Recognize the safety procedure in oil & gas producing wells
- ✳ Types of Production facilities and equipment
- ✳ Well testing operations , monitoring and evaluation
- ✳ Well completion and work over
- ✳ Identify the well production problems and stimulation
- ✳ How to Diagnoses well production problems and set up remedial action (work over)
- ✳ Outline the several types of artificial lift. and improve Oil & Gas production

WHO SHOULD ATTEND?

This course is intended for well service engineers, night rig less work over supervisors, completion engineers, well site supervisors, production engineers, senior well engineers,

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rig less work over contractors' stuff, junior fishing engineers & all supporting staff needing to gain an understanding of the principles and practices relevant to the Rig Less Interventions Activities.

DAILY OUTLINE

Day-1

- ✿✿ Introduction to Oil and Gas industry
- ✿ The production life system
- ✿ Upstream production system
- ✿ Downstream production system
- ✿ Flow through chokes
- ✿ Type of chokes measurement for oil & gas wells
- ✿ Well head data acquisition and collection
- ✿ Monitor annulus pressure (Safety wise)
- ✿ Sampling wells and safety precaution
- ✿ Practical exercise and video –DVD
- ✿ Well completion
- ✿ Completion equipments
- ✿ Type of completion
- ✿ Group exercise

Day-2

Well Stimulations

- ✿ Type of stimulation
- ✿ Stimulation design
- ✿ Stimulation evaluation
- ✿ Case study (How to increase total production)
- ✿ Well perforation
- ✿ Type of perforation
- ✿ Perforation design
- ✿ Perforation in horizontal well
- ✿ Case study

Well testing

- ✿ Type of well testing
- ✿ Testing design
- ✿ testing executing
- ✿ Testing evaluation
- ✿ Set up treatment system

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- ✿ Production facilities and equipment.
- ✿ Cured oil treatment

Day-3

- ✿ Set up monitoring system
- ✿ Practical exercises & video - DVD
- Production problems**
- ✿ Formation damage
- ✿ Sanding
- ✿ Scale deposit
- ✿ Water problems
- ✿ Corrosion
- ✿ High GOR
- ✿ Diagnosis and solving production problems
- ✿ Microbial Methods
- ✿ Case study

Methods of Improve Oil production

Production optimization

- ✿ Well water injection
- ✿ Adjusting & optimization injection
- ✿ Treatment of water injection

Day-4

Gas injection

- ✿ Gas injection to Gas producing
- ✿ Case study (How to increase total production)

Artificial Lift methods

- ✿ Types of artificial lift
- ✿ Selections Methods
- ✿ Applications
- ✿ Trouble shooting
- ✿ Practical exercises and video CD-DVD

Day-5

Gas Lift method

- ✿ Types of gas lift
- ✿ Gas lift equipment
- ✿ Gas lift operations
- Work over operations**
- ✿ Methods of work over

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- ✿ Diagnoses and identify well problems
- ✿ Set up work over proposal
- ✿ What is new in production operations?

Workshop and case studies

Post test

TRAINING METHODOLOGY

A highly interactive combination of lectures and discussion sessions will be managed to maximize the amount and quality of information and knowledge transfer. The sessions will start by raising the most relevant questions, and motivate everybody find the right answers. The delegates will also be encouraged to raise their own questions and to share in the development of the right answers using their own analysis and experiences. Tests of multiple-choice type will be made available on daily basis to examine the effectiveness of delivering the course. Booklet, Power-Point presentations, Handouts, Videos, User group discussions and practices on case study

- 30% Lectures
- 30% Workshops and work presentation
- 20% Group Work& Practical Exercises
- 20% Videos& General Discussions

NOTE:

Pre & Post Tests will be conducted

Case Studies, Group Exercises, Group Discussions, Last Day Review & Assessments will be carried out.

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